

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1.-25. (Canceled).

26. (Previously Presented) A method for a user interface to accept laboratory experiment information for control of a laboratory experiment, the method using a computer system, the computer system including a processing system coupled to a network, wherein a user input device, display device and processor are coupled to the processing system, the method comprising

accepting signals from the user input device to define a parameter of an experiment;

transferring the parameter to the network;

receiving experiment results from the network, wherein the experiment results include results from an experiment using the parameter; and

displaying the experiment results on the display device.

27. (Previously Presented) The method of claim 26, further comprising using the processor to display information sections including one or more of the following: sample, experiment, probe array.

28. (Previously Presented) The method of claim 26, wherein the step of accepting signals includes a substep of:

accepting signals to define a probe array image identifier.

29. (Previously Presented) The method of claim 26, wherein the step of accepting signals includes a substep of:

accepting signals to define a probe array type.

30. (Previously Presented) The method of claim 26, wherein the step of accepting signals includes a substep of:

accepting signals to indicate a probe array analysis set.

31. (Previously Presented) The method of claim 26, wherein the step of accepting signals includes a substep of:

accepting signals to indicate a target database for publishing experiment results.

32. (Previously Presented) A method for displaying laboratory experiment information, the method using a computer system, the computer system including a processing system coupled to a network, wherein a display device and processor are coupled to the processing system, the method comprising

using the processor to display steps of setup and execution of an experiment over the network; and

using the processor to display a result for a sample for one or more of the displayed steps.

33. (Canceled)

34. (Previously Presented) A computer program embodied on a computer-readable medium for a method to accept laboratory experiment information, the method using a computer system, the computer system including a processing system coupled to a network, wherein a user input device, display device and processor are coupled to the processing system, the computer program including

one or more instructions for accepting signals from the user input device to define a parameter of an experiment;

one or more instructions for transferring the parameter to the network;

- one or more instructions for receiving experiment results from the network,
- wherein the experiment results include results from an experiment using the parameter; and
- displaying the experiment results on the display device.